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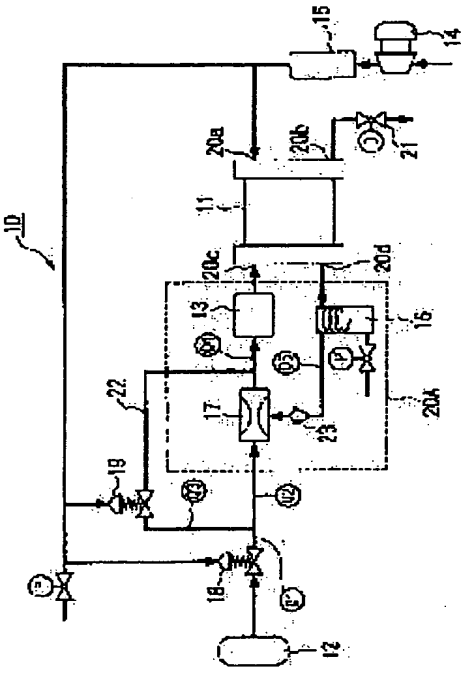
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(71)Applicant : HONDA MOTOR CO LTD
(72)Inventor : SUGAWARA TATSUYA
KOBAYASHI TOMOKI

(54) FUEL SUPPLY SYSTEM FOR FUEL CELL

(57)Abstract:
PROBLEM TO BE SOLVED: To control with a broad output range easily with a simple configuration.
SOLUTION: A fuel supply system 10 for a fuel cell has a configuration equipped with a fuel cell 11, a fuel supply section 12, an oxidizer supply section 14, an ejector 17, a fuel supply side pressure control section 18, and a bypass side pressure control section 19. The fuel supply side pressure control section 18 is arranged between the fuel supply section 12 and a humidifying section 13, and the ejector 17 is arranged between the fuel supply side pressure control section 18 and the humidifying section 13. A bypass duct 22 to bypass the ejector 17 is installed in the duct connecting the fuel supply side pressure control section 18 and the humidifying section 13, and the bypass side pressure control section 19 is installed in the bypass duct 22. When the outlet pressure of hydrogen at the outlet of the ejector 17 drops to less than the supply pressure determined by the bypass side pressure control section 19, a valve of the bypass side pressure control section 19 is opened and hydrogen is supplied to the fuel cell 11 from the bypass duct 22.



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(71)出願人　000005326
本田技研工業株式会社
東京都港区南青山二丁目１番１号
(72)発明者　菅原　竜也
埼玉県和光市中央１丁目４番１号　株式会社本田技術研究所内
(72)発明者　小林　知樹
埼玉県和光市中央１丁目４番１号　株式会社本田技術研究所内
(74)代理人　100064908
弁理士　志賀　正武　（外５名）

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(54)【発明の名称】　燃料電池の燃料供給装置

(57)【要約】
【課題】　単純な構成で、容易に、広範な出力範囲の制御を行う。
【解決手段】　燃料電池の燃料供給装置１０を、燃料電池１１と、燃料供給部１２と、酸化剤供給部１４と、エゼクタ１７と、燃料供給側圧力制御部１８と、バイパス側圧力制御部１９とを備えて構成した。燃料供給部１２と加湿部１３との間に燃料供給側圧力制御部１８を設け、燃料供給側圧力制御部１８と加湿部１３との間にエゼクタ１７を設けた。燃料供給側圧力制御部１８と加湿部１３とを接続する流路に、エゼクタ１７を迂回するバイパス流路２２を設け、バイパス流路２２にはバイパス側圧力制御部１９を設けた。エゼクタ１７の出口での水素の出口圧が、バイパス側圧力制御部１９で設定された供給圧以下になると、バイパス側圧力制御部１９を開弁して、バイパス流路２２から燃料電池１１へ水素を供給する。

